Medtronic

NIM-Neuro® 3.0

NERVE INTEGRITY MONITORING SYSTEM

NIM-Neuro® 3.0

Leading Through Innovation.

Safety and peace-of-mind…that's what intraoperative nerve monitoring is all about. And that's why Medtronic ENT introduced the first NIM® nerve integrity monitor in 1989. Our NIM system evolves with your needs because we listen to you and combine your experience with ours.

The new eight-channel NIM-Neuro® 3.0 is built on 20 years of continuous innovation, experience, and leadership in nerve monitoring. With remarkable breakthrough technology, it delivers advanced monitoring features in an easily accessible system.

Improved Safety + Peace-of-Mind

The first and only nerve monitor that fully enables:

- Simultaneous monitoring during bipolar cautery
- Real-time continuous monitoring with APS™ electrode*
- Artifact detection software to help reduce noise
- Stim bur capability, combining Visao® High-Speed Otologic Drill with stimulation
- Up to eight channels of monitoring

Easier to Use

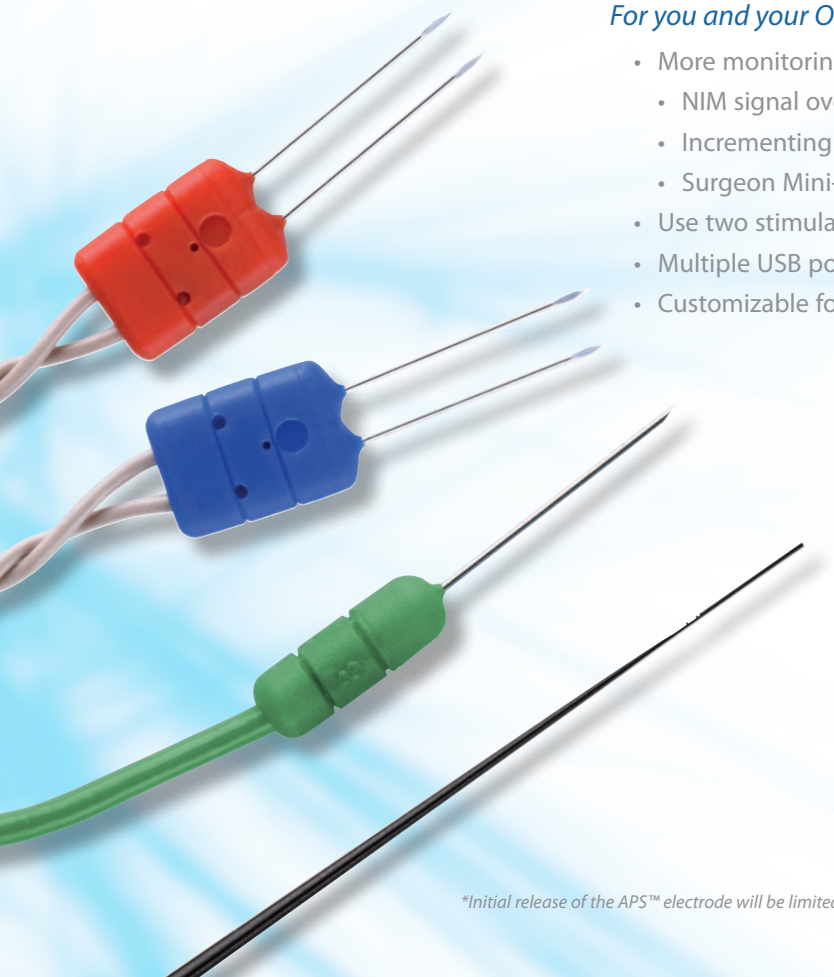
Redesigned software:

- Three simple user environments: *Setup, Monitoring, and Reports*
- Setup and Reports Wizards
- Default and customized procedure settings
- Electrode and nerve placement guides

More Convenient

For you and your OR staff:

- More monitoring from within surgical field:
  - NIM signal overlay in your microscope
  - Incrementing Probe adjusts stimulus and captures data
  - Surgeon Mini-Screen
- Use two stimulators at once
- Multiple USB ports for saving data
- Customizable for your needs



**Initial release of the APS™ electrode will be limited.*

Why Monitor?

It helps reduce the risk of nerve damage during surgery by monitoring EMG activity in multiple cranial and peripheral nerves and providing audible and visual alerts if the nerve is activated.

Nerve Integrity Monitoring System

Three User Modes
- Setup, Monitoring, Reports

Intuitive Navigation Bar
- Always at top of screen
- Side tabs access other settings

Better, Faster Touchscreen
- Navigate NIM® software more quickly and easily

Snapshot Button
- Provides flexible reporting options
- Instantly prints and saves current screen image

Adjustment Knobs
- Quickly change stimulus or volume levels

Visual Enhancements
- Larger and easier-to-read displays
- Greatest EMG response is highlighted

Sleeker Design
- More compact system takes up less space
- New cart reduces clutter with streamlined cord management and storage

Setup Mode

Fast and Easy Setup

3 Easy Steps to Begin Monitoring

1. Choose procedure or surgeon settings.
2. Review settings, place and check electrodes.
3. Begin monitoring.

Nerve and Electrode Placement Guides

- Color-coded to help reduce confusion
- Choose by procedure, nerve, or customized settings

More Convenient Electrode-Checking

- Quick, one-touch access
- Built-in audio and visual alarms ensure proper monitoring

"Help" Button

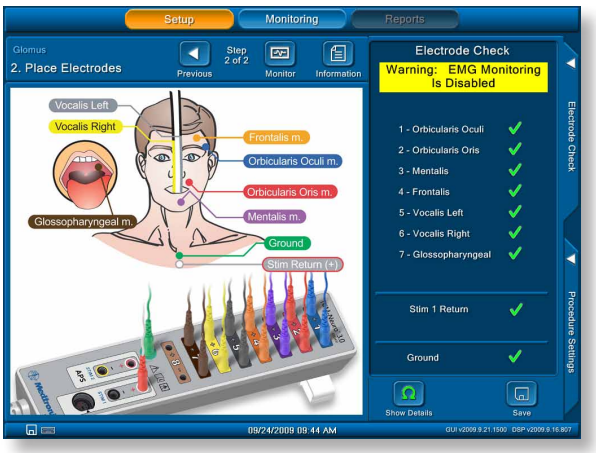
Audio EMG Samples

- Helps to explain the sounds you hear and provides examples of each

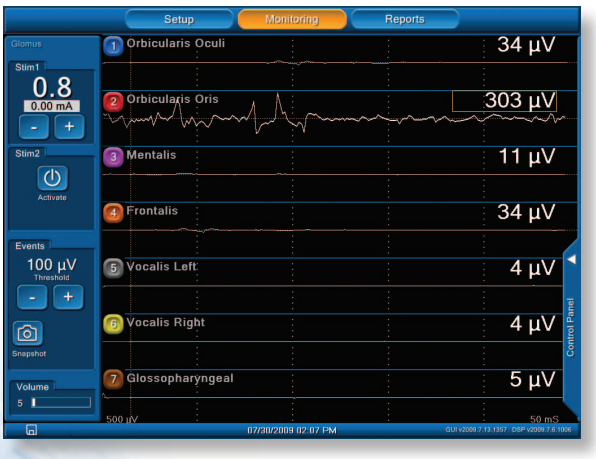
Electrode Placement Guides

- Allows you to review the recommended placement by nerve or procedure

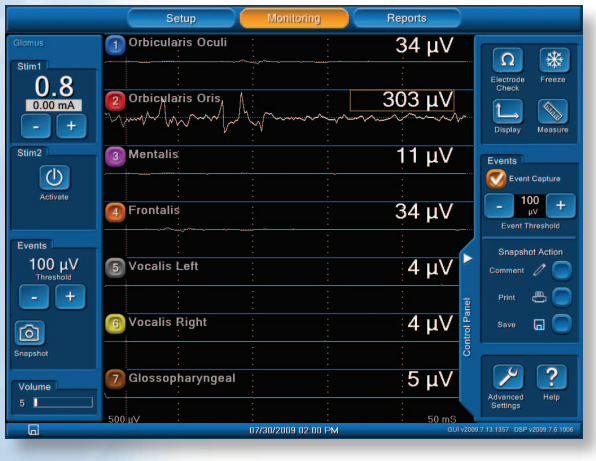
1. Choose procedure or surgeon settings



2. Place and check electrodes



3. Begin monitoring



Adjust additional settings easily

Leading Through Innovation

Monitoring Mode

First and Only Nerve Monitor with These Innovative Features:

Simultaneous Monitoring During Bipolar Cautery

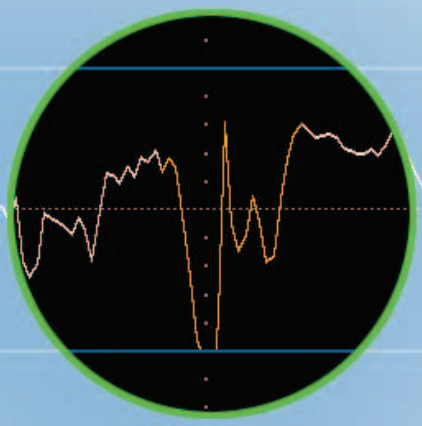
- No need to mute or turn off monitoring when using bipolar cautery
- Provides expanded monitoring capabilities

Artifact Detection Software

- Distinguishes between artifact and EMG signals
- Mutes most artifacts for a more quiet surgery

APS™ Monitoring (Automatic Periodic Stimulation)*

- Provides real-time continuous monitoring
- Stimulating electrode is placed on the nerve
- Allows for early detection and warning of a change in nerve function



Artifact Detection Feature

Enhanced On-Screen Information

- **More Visible EMG Values and Settings**
- **Expanded Amplitude and Time Scales**
- **Intuitive Buttons and Tabs for Easy Access to Advanced Settings**

**Initial release of the APS™ electrode will be limited.*

Monitoring Mode

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Stim Bur Guard

- Combines an electric drill with stimulation
- Works with Visao® High-Speed Otologic Drill and Integrated Power Console (IPC™) system
- Warns surgeon of bur's proximity to facial nerve during otologic surgery

Versatility within the Surgical Field

Microscope Overlay

- Imports NIM® signal through high-end microscope as you operate
- Works with several high-quality surgical microscopes

Surgeon Mini-Screen

- Displays monitoring information on small screen
- Attaches to any I.V. pole

Incrementing Probe

- Adjusts the stimulus from 0.01 mA to 30 mA
- Prints or saves the current screen

Two Independent Stimulators

- Enables more flexibility in stimulus options

Better Quality EMG Information

Increased Sensitivity

- Improved signal-to-noise ratio
- Enables you to hear and see lower-level EMG responses due to less background noise
- Helps minimize nerve manipulation during surgery

Improved Muting Detector

- More sensitive to EMG signals
- Less sensitive to external and internal interference
- Only one muting port instead of four

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Reports Mode

Quick and Easy Documentation

Report Wizard

- Create custom reports
- Enter case information and customize data fields
- Save or print patient's EMG activity to document for electronic medical records, reimbursement, etc.
- Utilize snapshot or log reports

Multiple USB Ports

- Attach a printer, USB stick, keyboard, or other data storage devices
- Save reports in Adobe® Acrobat® PDF

Service and Support

Dedicated Service and Support

- Large, dedicated sales force
- 20 years of experience in nerve monitoring
- Onsite training for you and your staff upon installation
- Ongoing in-servicing and training

Ordering Information

System Requirements

Product	Description	Qty
8253402	Mainframe, NIM-Neuro 3.0, International	1
8253410	Patient Interface Box, 8-Channel	1
8253600	Patient Simulator, Universal	1
8220325	NIM® Muting Detector Probe	1

Includes one choice of a power cord:

1895821	Power Cord - United Kingdom, 2.5 Meter	1
1895822	Power Cord - Continental Europe, 2.5 Meter	1
1897821	Power Cord - North America, 6 Meter	1
1895824	Power Cord - United Kingdom, 6 Meter	1
1895825	Power Cord - Continental Europe, 6 Meter	1

Includes one choice of a User Guide:

8253050A	User Guide, EN, SP, FR, PO, GR	1
8253050B	User Guide, EN, FR, DE, DU, IT	1
8253050C	User Guide, EN, SW, DA, FI, NO	1
8253050D	User Guide, EN, PO, CZ, HU, TR	1
8253050E	User Guide, EN, RU (CD)	1
8253050F	User Guide, EN, International	1
8253062	Service Manual	1

Printer Package

Product	Description	Qty
8253026	Printer	1
8253025	Power Supply	1
8253029	Power Cord	1
8253028	USB Cable	1

Accessories

Product	Description	Qty
8253010	Surgeon Mini-Screen (includes cable)	1
8253080	Surgeon Mini-Screen Cable (replacement)	1
8253015	Microscope Cable	1
8253020	NIM 3.0 System Cart	1
8253030	Keyboard, Medical-Grade	1
8253035	Storage Case	1
8253040	Biomed Test Kit, Universal	1
8253070	Mainframe Fuse Kit, 2.5AMP	1
8253075	Patient Interface Fuse Kit, 32MA	1
8253085	Video/Audio Recording Adapter Kit	1

For further information, please call Medtronic ENT at 800.874.5797 or 904.296.9600. You may also consult our website at www.MedtronicENT.com.

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Hungary 36-30-5052987
India 91-22-26836733
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Italy 39-02-24137-324
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Korea 82-2-3404-3600
Lebanon 961-1-370-670
Luxembourg 32-2456-09-09
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